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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	_
10/826,046	04/16/2004	Steven S. Homer	200315743-1	9457	
22879	7590 03/09/2005		EXAM	INER	_
HEWLETT F	PACKARD COMPAI	PAPE, ZACHARY			
P O BOX 2724	400, 3404 E. HARMON				
	JAL PROPERTY ADM	ART UNIT	PAPER NUMBER		
FORT COLL II	FORT COLLING CO. 80527.2400				

DATE MAILED: 03/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)						
	10/826,046	HOMER, STEVEN S.						
Office Action Summary ·	Examiner	Art Unit						
	Zachary M. Pape	2835						
The MAILING DATE of this communication Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed on 1	<u> 6 April 2004</u> .							
2a) ☐ This action is FINAL . 2b) ☑ 1	This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims		•						
4) ⊠ Claim(s) <u>1-30</u> is/are pending in the applica 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-29</u> is/are rejected. 7) ⊠ Claim(s) <u>30</u> is/are objected to.	Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-29 is/are rejected.							
Application Papers	·							
9)⊠ The specification is objected to by the Exar	miner.							
10)⊠ The drawing(s) filed on <u>16 April 2004</u> is/are: a) accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s)								
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview S	Summary (PTO-413) s)/Mail Date						
 2) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 4162004. 		nformal Patent Application (PTO-152)						

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: Portable computer system with integrated antenna.

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the **screen member connector** must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New

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Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claim 14 recites the limitation "the cover member" on page 7. There is insufficient antecedent basis for this limitation in the claim. It appears the phrase should read, "the screen member".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

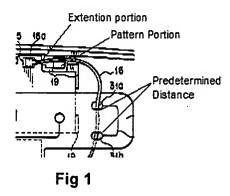
A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-9, 11-13, 15-20, 22-27, 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakajima et al. (Patent # 6,456,499). With respect to claim 1, Nakajima et al. teaches the use of a portable computer system (1), comprising: a bezel (9) adapted to support a screen member (8); and an antenna (12) disposed at least partially between the bezel and the screen member.

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- 5. With respect to claim 2, Nakajima et al. further teaches that the antenna comprises a conductive trace (12) deposited on an interior surface of the screen member.
- 6. With respect to claim 3, Nakajima et al. further teaches a display device (7) disposed adjacent an interior surface of the screen member (8).
- 7. With respect to claim 4, Nakajima et al. further teaches that the antenna extends a predetermined distance along an interior surface of the screen member (As illustrated in Fig 4 between holes 31a and 31b).
- 8. With respect to claim 5, Nakajima et al. further teaches that the antenna comprises a pattern portion (See Fig 1 below)



- 9. With respect to claim 6, Nakajima et al. further teaches that the antenna comprises an extension portion extending from the pattern portion to a screen member connector (15, See Fig 1 above).
- 10. With respect to claim 7, Nakajima et al. further teaches that the antenna comprises an extension portion (16) extending to at least two side areas of the screen member.

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- 11. With respect to claim 8, Nakajima et al. further teaches a screen member connector (15) adapted to conductively couple the antenna to an internal antenna circuit (16) of the portable computer system.
- 12. With respect to claim 9,I in so far as the bezel (9) of Nakajima helps maintain the antenna in place, the bezel conductively couples the antenna to the internal antenna circuits of the computer.
- 13. With respect to claim 11, Nakajima et al. further teaches a portable computer system (1), comprising: means for supporting a screen member (10); and an antenna means (12) disposed at least partially between the supporting means (10) and an interior surface of the screen member (8).
- 14. With respect to claim 12, Nakajima et al. further teaches the use of a means for conductively coupling the antenna means to an internal antenna circuit of the portable computer system. (Antenna 12 is coupled to second antenna piece (wire) 16 via connector 15. Wire 16 further travels into the computer system connecting the antenna to the internal antenna circuit).
- 15. With respect to claim 13, Nakajima et al. further teaches a means for conductively coupling the antenna means to the supporting means. (Fig 4 illustrates that antenna (12) is coupled to the screen member (10) via protrusions 19, 23, 26, etc.

 Because antenna (12) is in contact with supporting means (10) it is inherently conductively coupled to the supporting means (10)).
- 16. With respect to claim 15, Nakajima et al. further teaches a display means (7) disposed adjacent to the interior surface of the screen member.

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17. With respect to claim 16, Nakajima et al. further teaches a method of manufacturing a portable computer system (1), comprising: providing a screen member (10) having an antenna (12) disposed on an interior surface thereof; and providing a bezel (8,9) adapted to support the screen member, at least a portion of the antenna disposed between the bezel and the screen member. (As illustrated in Fig 1)

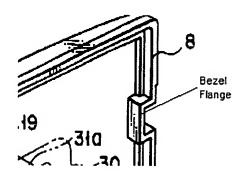
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- 18. With respect to claim 17, Nakajima et al. further teaches conductively coupling the antenna (12) to an internal antenna circuit (16) of the portable computer system.
- 19. With respect to claim 18, Nakajima et al. further teaches providing a screen member (10) having a pattern antenna portion (See Fig 1 above) disposed on the interior surface thereof.
- 20. With respect to claim 19, Nakajima et al. further teaches providing a screen member (10) having an extension antenna portion (As illustrated in Fig 1 above) extending from the pattern antenna portion (Illustrated in Fig 1 above) to a screen member connector (16a).
- 21. With respect to claim 20, Nakajima et al. further teaches conductively coupling the antenna (12) to the bezel (8,9). (Fig 4 illustrates that antenna (12) is coupled to the screen member (10) aided by protrusions 19, 23, 26, etc. Because antenna (12) is in contact with screen member (10) and the screen member (10) is in contact with the bezel member (8 and 9) the antenna is conductively coupled to the bezel).
- 22. With respect to claim 22, Nakajima et al. further teaches a portable computer system (1), comprising: a screen member (10), a display device (7) disposed adjacent

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an interior surface of the screen member, and an antenna (12) disposed on the interior surface of the screen member (10).

- 23. With respect to claim 23, Nakajima et al. further teaches that the antenna comprises a pattern portion (See Fig 1 above)
- 24. With respect to claim 24, Nakajima et al. further teaches that the antenna comprises an extended portion extending from the pattern portion to a screen member connector (15, See Fig 1 above).
- 25. With respect to claim 25, Nakajima et al. further teaches that the antenna is conductively coupled (via connector 15) to an internal antenna circuit (wire 16 which leads to the internal circuit in the body of the computer) of the portable computer system.
- 26. With respect to claim 26, insofar as the bezel (9) of Nakajima et al. helps maintain the antenna in place, the bezel conductively couples the antenna to the internal antenna circuits of the computer.
- 27. With respect to claim 27, Nakajima et al. further teaches the use of a bezel (8, 9) having a flange (See Fig 2 below) disposed between the screen member and the display device.



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Fig 2

28. With respect to claim 29, Nakajima et al. further teaches that the antenna extends a predetermined distance along an interior surface of the screen member (As illustrated in Fig 4 between holes 31a and 31b).

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Claim Rejections - 35 USC § 103

- 29. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 30. Claims 10, 21, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakajima et al. in view of Chen (Patent # 6,809,689). With respect to claims 10, 21, and 28, Chen teaches the conventionality of using a conductive via (13, 14) to electrically couple an antenna to the internal circuitry thereof. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a conductive via to provide a signal from one side of the antenna substrate to the other and thus providing a stronger signal to the internal circuitry of the antenna through the connector (15).
- 31. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakajima et al. With respect to claim 14, Nakajima et al. teaches all the claimed limitations as expressed in claim 11 above, but fails to specifically teach that the interior

surface of the screen member is deposited with a conductive means. It would have been obvious to one of ordinary skill in the art at the time the invention was made to deposit the interior surface of the screen member (8) with a conductive material to facilitate the conduction between the screen member (8) and the antenna (12) since doing so would allow for the entire screen (8) to act as an expanded antenna and further provide better signal sending and receiving capabilities.

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Allowable Subject Matter

- 32. Claim 30 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 33. With respect to claim 30, the claim recites a bezel flange disposed between the screen member and the display device, the antenna disposed between the bezel flange and the interior surface of the screen member. These limitations in combination with all remaining limitations of claims 22 and 30 are believed to render the subject matter allowable over the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary M. Pape whose telephone number is 571-272-2201. The examiner can normally be reached on Mon. - Thur. & every other Fri. (8:00am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached at 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Zachan M. Tape

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